

A1
operating states to switch said flow of said liquid or gases from said
medicament supply container from one throttle path arrangement to
another only during a duration of said energy transmission.

2. Process for the adjustment of a switchable flow-limiting device according to
claim 1, wherein said device that includes said flow-limiting device is an infusion pump
for implantation into a patient's body for treatment of the patient with medicament, said
infusion pump having at least one puncture point for filling a supply container to store a
selected medicament, further comprising:

transporting said selected medicament from said supply container to said flow-
limiting device by means of a liquid transporting arrangement, and
introducing said selected medicament from said supply container into said
patient's body by means of said throttle paths.

3. Process for the adjustment of a switchable, flow-limiting device according to
claim 2, further comprising measuring filling-level values of said supply container with a
sensor and storing said filling-level values intermediately in a memory in said infusion
pump.

A2
4. (Amended) Process for the adjustment of a switchable, flow-limiting device
according to claim 1, wherein said switchable flow-limiting device comprises a valve
having at least two [three] stable positional operating states.

5. Process for the adjustment of a switchable, flow-limiting device according to
claim 1, wherein said energy transmitting step comprises transmitting energy only
intermittently.

6. (Amended) Process for the adjustment of a switchable, flow-limiting device

A3
according to claim 1, wherein said switching step comprises moving a piston within said flow-limiting device between two stable end positions in an interior of said flow-limiting device [and a third stable position achieved by combination of magnetic holding force and restoring spring force].

7. Process for the adjustment of a switchable, flow-limiting device according to

claim 6, further comprising retaining said switchable, flow-limiting device in said stable positions without drawing electric current.

8. Process for the adjustment of a switchable, flow-limiting device according to

claim 1, wherein said energy transmitting step comprises transmitting said energy inductively.

9. Process for the adjustment of a switchable, flow-limiting device according to

claim 1, further comprising transmitting intermediately stored data from an interior of an infusion pump that includes said flow-limiting device to said service device by means of a data transmission device having portions located in said infusion pump and in said service device.

11. (Amended) Apparatus for adjustment of the flow of liquids or gases inside a

patient's body, comprising:

H4
a device inside said patient's body, including [a] an electromechanical flow-limiting device and a medicament supply container,

and a service device outside said patient's body that enables switching of said flow-limiting device,

wherein said flow-limiting device is a switchable flow-limiting device having [at least

three] multistable operating states,
said flow-limiting device and said service device being spatially separated with no bodily
connection between said flow-limiting device and said service device,
a plurality of throttle paths arranged to follow said flow-limiting device in said device
that includes said flow-limiting device and said medicament container, and
a device for transmitting energy needed for adjustment of said flow-limiting device from
said service device to switch said flow of said liquids or gases from said
medicament supply container from one throttle path arrangement to another only
during the duration of energy transmission from said service device,
said flow-limiting device comprising a piston in a chamber within said flow-limiting
device and an integrated leaf spring structure for mounting and guiding said
piston,
said piston being stable in [three] at least two positional operating states, and
said chamber having at least one lateral intake and at least two end faces with a central
opposed outlet on each of said at least two end faces.

Please add the following claims:

13. An implantable medical pump, comprising:

a fluid reservoir;

a passive regulator assembly adjustable to a plurality of flow rate settings for regulating
the flow of fluid from the fluid reservoir;

an electromechanical controller for changing the passive regulator assembly from a first
flow rate setting to a second flow rate setting when said electromechanical controller
receives an induced voltage and in response to control signals; and

a receiver for receiving radio frequency signals operative to maintain the induced voltage in the electromechanical controller in response to received radio frequency signals.

14. The implantable medical pump according to claim 13, wherein the receiver for receiving radio frequency signals is further operative to provide control signals to the electromechanical controller in response to received radio frequency signals.

15. The implantable medical pump according to claim 14, wherein the regulator assembly for regulating the flow of fluid from the fluid reservoir comprises a valve.

16. The implantable medical pump according to claim 14, wherein the regulator assembly for regulating the flow of fluid from the fluid reservoir comprises a valve and a flow restrictor, and wherein the valve is operatively coupled to the flow restrictor.

17. The implantable medical pump according to claim 14, wherein the regulator assembly for regulating the flow of fluid from the fluid reservoir comprises a plurality of valves and a flow restrictor network which are operatively coupled.

18. The implantable medical pump according to claim 14, wherein the radio frequency signals are received from a programmer.

19. The implantable medical pump according to claim 14, further comprising a sensor for sensing, in response to a received radio frequency sense command, the amount of fluid in the fluid reservoir.

Respectfully submitted,



M. Robert Kestenbaum
Reg. No. 20,430
11011 Bermuda Dunes NE
Albuquerque, NM USA 87111
Phone (505) 323-0771
Fax (505) 323-0865